

Patent Claims

1. Method for introducing a roadway support (7) in parallel to a face advancement of a gallery (1) by means of a selective cut heading machine (2), characterized in that lagging mats (18, 19) in the form of rolled mats (20, 21) are arranged downstream of the cutting tool (3) of the selective cut heading machine (2) in circumferential offset relationship in two transverse planes (14, 15) extending behind one another in longitudinal heading direction, then are unrolled in lateral overlapping disposition in longitudinal heading direction simultaneously with the face advancement and immediately aligned upon the rock, and that following the complete unwinding of the lagging mats (18, 19) these working steps are successively repeated in accordance with the length of the face advancement with new lagging mats (18, 19) which adjoin the previously laid lagging mats (18, 19), with the roadway support (7) being introduced at a distance to the cutting tool (3) as the lagging mats (18, 19) are fixed.
2. Method according to claim 1, characterized in that the unrolled lagging mats (18, 19) are aligned by a self-propelled lagging manipulator (13) on the rock.
3. Method according to claim 1 or 2, characterized in that the ends of the previously laid lagging mats (18, 19) are coupled with the ends of the new lagging mats (18, 19).
4. Method according to one of the claims 1 to 3, characterized in that the lagging mats (18, 19) are fixed by a roof bolting (7) upon the rock.
5. Method according to one of the claims 1 to 3, characterized in that the lagging mats (18, 19) are secured in place through supporting frames.

6. Apparatus for carrying out the method according to one of the claims 1 to 5, characterized by a lagging manipulator (13) which is movable independently of the selective cut heading machine (2) in longitudinal heading direction for introducing and aligning lagging mats (18, 19) downstream of the cutting tool (3) of the selective cut heading machine (2) and includes mat cartridges (16, 17) for receiving lagging mats (18, 19) in the form of rolled mats (20, 21) in circumferential offset relationship in two transverse planes (14, 15) extending behind one another in longitudinal heading direction, wherein the mat cartridges (16, 17) in a 1st transverse plane (14) are hereby arranged at a gap to the mat cartridges (16, 17) of the other 2nd transverse plane (15).
7. Apparatus according to claim 6, characterized in that the mat cartridges (16, 17) are provided with self-adjusting restraining or tensioning mechanisms.
8. Apparatus according to claim 6 or 7, characterized in that the lagging manipulator (13) includes a height control.
9. Apparatus according to claim 8, characterized in that distance sensors are associated to the height control.
10. Apparatus according to one of the claims 6 to 9, characterized in that the lagging manipulator (13) is shiftable along at least one overhead track (12).
11. Apparatus according to one of the claims 6 to 9, characterized in that the lagging manipulator (13) is guided on the roadway floor (6) and/or roadway end.